

The William H. Pickering Office File Collection, 1955-1976

5.85 cubic feet

JPL 186

Biographies

William Hayward Pickering was born in Wellington, New Zealand, on December 24, 1910. After one year at the University of New Zealand, he emigrated to the United States, enrolling at the California Institute of Technology (Caltech) in 1929. He received his Bachelor of Science degree in Electrical Engineering in 1932, his Master of Science degree in Physics in 1933, and his Doctorate in Physics in 1936, all from Caltech. He became a naturalized American citizen in February 1941. After graduation, he joined the Caltech faculty, becoming a full professor of electrical engineering in 1946. During World War II, Pickering conducted research on the absorption properties of cosmic rays with Dr. Robert A. Millikan, and investigated Japanese balloon warfare techniques for the Army Air Corps.

Pickering was invited to join the Jet Propulsion Laboratory (JPL) in 1944, on the basis of his experience in the design and use of telemetering devices. He was named chief of the Remote Control Section at JPL. Beginning in 1949, Pickering headed the Corporal and Sergeant missile programs, and in September 1954 he succeeded Louis Dunn as Laboratory Director.

In November 1957 JPL and the Army Ballistic Missile Agency were directed to prepare and orbit an artificial satellite, in the wake of the launching of Sputnik by the Soviet Union, and the failure of the American Vanguard satellite. Explorer 1, the first U.S. artificial satellite, was launched on January 31, 1958.

In December 1958 JPL was transferred to the newly created National Aeronautics and Space Administration (NASA). In January 1959 JPL was assigned the responsibility for the robotic exploration of the moon and planets. Under Pickering's direction, JPL supervised the Ranger missions returning the first close-up, high-resolution pictures of the lunar surface; he also supervised the Surveyor soft-landers on the Moon; the Mariner missions to Mars and Venus; and the first gravity assist mission to Mercury, via Venus. JPL also designed the Viking Orbiters to Mars and designed and built the Voyager spacecraft for their mission to the outer planets.

After Pickering's retirement from JPL in 1976, he directed the Research Institutes of Saudi Arabia's University of Petroleum and Minerals. In 1978 he returned to California and established the Pickering Research Corporation for space related projects. In 1983, he formed Lignetics, Inc., to manufacture wood pellets from wood waste for use in home heating.

Pickering has received numerous national and international honors. Those honors include:

Meritorious Civilian Service Commendation, U.S. Army, 1945.

James Wyld Memorial Award, American Rocket Society, 1957.

IRE Annual Award, 1958.

Space Flight Achievement Award, National Industry-Missile Conference, 1959.

U.S. Army Distinguished Civilian Service Award, 1959.

Air Force Association Award, LA Chapter, Air Force Association, 1962-63.

Grand Marshall, Tournament of Roses Parade, 1963.

George Washington Achievement Award, Southern California Engineering Societies, 1963.

Columbus Gold Medal, International Institute of Communications, 1964.

Golden Plate Award, American Academy of Achievement, 1964.

Italian Order of Merit, Republic of Italy, 1965.

Galabert International Astronautics Award, 1965.

Special Award, British Interplanetary Society, 1965.

Robert H. Goddard Memorial Trophy, National Space Club, 1965.

Man of the Year Award, Association of the U.S. Army, 1965.

Crozier Gold Medal, American Ordnance Association, 1965.

NASA Distinguished Service Medal, 1965.

Proctor Prize, Scientific Research Society of America (RESA), 1965.
 Spirit of St. Louis Medal, American Society of Mechanical Engineers, 1965.
 Magellanic Premium, American Philosophical Society, 1966.
 Space Trustees Award, California Museum of Science and Industry, 1966.
 Pasadena Citizens Award, Pasadena Chamber of Commerce, 1967.
 Man of the Year, Industrial Research Institute, 1968.
 Arthur Noble Award, City of Pasadena, 1968.
 La Canadian of the Year Award, Kiwanis Club, 1968.
 Space Flight Award, American Astronautics Society, 1968.
 Louis W. Hill Transportation Award, American Institute of Aeronautics and Astronautics, 1968.
 Myrtle Wreath Award, Hadassah, 1968.
 Golden Omega Award, Institute of Electrical and Electronics Engineers, 1968.
 Gold Cup Man of Achievement Award, Achievement Rewards for College Scientists, 1969.
 Outstanding American, Los Angeles Philanthropic Association, 1969.
 Interprofessional Cooperation Award, Society of Manufacturing Engineers, 1970.
 Edison Medal, Institute of Electrical and Electronic Engineers, 1972.
 George C. Marshall Medal, Association of the United States Army, 1972.
 Crown City Award, Pasadena Chamber of Commerce, 1972.
 Community Service Award, Salvation Army, 1972.
 Guglielmo Marconi Award, Marconi Foundation, 1974.
 NASA Presidential Management Improvement Award, 1974.
 Medal of Achievement, WEMA, 1975.
 Honourary Knight Commander of the Civil Division of Most Excellent Order of the British Empire, 1975.
 Distinguished Leadership Award, Verdugo Hills Hospital, 1976.
 President's National Medal of Science, 1976.
 Francois-Xavier Bagnoud Aerospace Prize, 1993.
 Japan Prize, Nation of Japan, 1994.

Victoria L. ("Vicki") Melikan was born in Highland Park, Michigan, in 1928. She received her bachelor of science and master of science degrees from Wayne State University, and continued her education in mechanical engineering at the Massachusetts Institute of Technology. Prior to joining JPL as Special Assistant to the Director in 1964, she was a member of the Defense Systems Division of General Motors Corporation. Her responsibilities at JPL included protocol, Congressional liaison, and public information.

After Pickering's retirement from JPL in 1976, Melikan became JPL's Legislative Affairs and Protocol Officer, Section 184, a position she held until 1985. She then continued to be Pickering's assistant at Lignetics Inc. She married Glenn E. Lairmore, manager of Division 310, Data Systems, during the late 1970s. Lairmore died at the age of 71 on February 8, 1992.

Provenance

The collection originated from Victoria L. Melikan, Special Assistant to the Director, Division 10. Twenty-four boxes of records were transferred from Melikan to the JPL Laboratory Records Center on June 11, 1976. There was a permanent withdrawal of three boxes in June 1983 and seven boxes in July 1990. The remaining materials were transferred to the JPL Archives in July 1990.

Collection Arrangement and Description

The collection consists primarily of correspondence, although memoranda, notes, pamphlets, copies of newspaper, magazine and journal articles, transcripts of speeches, press releases and photographs are also present. The collection is arranged in its original order, organized by numerical filing number. Each

category can be considered a series or sub-series. These are: Lab Visits, including Congressional visits; Special Events; General Correspondence, including invitations and requests; Awards and Commendations; JPL Correspondence, including biographies, history, minority affairs and annual reports; Foreign Travel Logs; and Outgoing Correspondence Files. Each series or sub-series has been arranged in chronological order unless otherwise noted. The date span of the collection is 1955 to 1976, with bulk dates of 1964 to 1975. The earliest document in the collection is biographical information of Pickering dated 1955.

Lab Visits (boxes 1-4, folders 1-95). This series documents visits to the Lab by VIPs and others. Included in most files is a schedule of events as well as correspondence prior and subsequent to the visit or tour. In several cases photographs documenting the visit are in the collection. This is true in the case of the visits of Princess Margaret, Vice President Spiro T. Agnew, the royal family of Thailand, and Gemini and Apollo astronaut Frank Borman, among others. In some cases, a thumbnail biography is present as well. In the case of the royal family of Thailand, there is a brief sketch of each member of the royal retinue, along with a pronunciation guide of names and the correct way to address each person. In the case of Princess Margaret, a script with Pickering's remarks, along with a guide to protocol, is represented in the collection.

In a few cases, there is documentation of a possible visit that was ultimately cancelled. President Lyndon B. Johnson was scheduled to visit the Lab in 1966 but ultimately cancelled, and writer Arthur C. Clarke had wanted to visit the Lab in 1973 but he could not work it out in his schedule. Congressman Ken Hechler, ranking Republican on the House Committee on Science and Astronautics, was scheduled to make a visit on January 30, 1967, but the visit was cancelled, undoubtedly due to the Apollo 1 fire on January 27, 1967.

The series is divided into a sub-series of Congressional visits. The visits of members of Congress were primarily those serving on the House Committee on Science and Astronautics, chaired during the time period by George P. Miller (D-CA) from 1961 to 1973, and Olin E. Teague (D-TX) from 1973 to 1979. Making frequent visits to JPL were Miller, Teague, Ken Hechler (R-WV), Charles A. Mosher (R-OH, ranking Republican from 1971 to 1977), George E. Brown, Jr. (D-CA), Joseph E. Karth (D-MN), and Emilio Q. Daddario (D-CT). Other Congressmen making visits to the lab were Donald E. Lukens (R-OH) and H. Allen Smith (D-CA). Also making periodic visits were staff members from the Senate Committee on Aeronautical and Space Sciences, chaired by Clinton P. Anderson (D-NM).

Special Events (Boxes 4-7, folders 96-175). Represented in the series are memoranda and correspondence pertaining to events of a special occasion that occurred on-lab or involved key Laboratory personnel. The series is organized chronologically by the event date, although in most cases the date span of the file begins prior to the date of the event and ends after the event. The series is primarily composed of correspondence, but also include schedules, attendance lists, press releases and photographs.

Included are two folders involving the Presidential Inauguration of Lyndon B. Johnson on January 20, 1965. Vicki Melikan was Chair of the Inaugural Parade Distinguished Visitors Committee. Included in one folder is a list of State Governors and State Democratic Party Chairmen, along with a list of staff on the Inaugural Parade Committee. A second folder contains a badge and ribbon commemorating the occasion.

Professional meetings, held at JPL and elsewhere are represented in the series. Most of items are comprised of correspondence and events programs. Some files have photographs included, such as the 1966 Goddard Memorial Award Dinner. Pickering, the recipient of the 1965 Goddard Award, was present to present the 1966 award to President Lyndon B. Johnson.

The dedication of the 210-foot antenna at Goldstone, CA ("Mars Station") is represented in the collection in three files. Planning for the dedication began seven months before the event. Included are suggested topics for the dedication, preliminary guest lists, invitation lists, background information on Goldstone and the Deep Space Network, and correspondence. One file is comprised of speeches delivered by Pickering and Congressman George P. Miller at the dedication.

Spacecraft launchings, as well as planetary and lunar encounters are also represented in the collection. The first encounters in the collection, Surveyor 1 in 1966, Surveyor 5 in 1967, and Mariner 5 in 1967, were relatively low-key affairs, with representatives from JPL, Caltech, NASA and Congress, as well as various subcontractors being invited. The invitation list to celebrate a planetary encounter at JPL was extended beyond JPL-Caltech-NASA with Mariner 10. People unconnected to the mission such as Harold

Urey, Ray Bradbury and Danny Kaye were invited and attended one or more of the planetary encounters of Mariner 10. Others, such as Ford Motor's President Lee Iacocca and California Lieutenant Governor Ed Reinecke were invited but sent their regrets. Mariner 10 was also honored by the U.S. Postal Service with a commemorative stamp, unveiled at JPL on April 4, 1975.

Also represented are correspondence relating to retirements of people and gifts presented to or from JPL. Ansel Adams presented a signed photograph of Half Dome at Yosemite with the full moon behind it to JPL. The correspondence series includes a postcard written and signed by Adams. The photograph was displayed in Building 183.

After the mission of Mariner 9, a 16-inch globe of Mars was manufactured and distributed to select individuals. Select JPL personnel as well as scientists were sent globes, as well as Congressmen and other VIPs, such as Arthur C. Clarke and Ray Bradbury. Included in the series is a file comprised of lists of individuals sent the globe and thank you letters that were received.

Among the retirements represented in the collection are Robert D. Fletcher, Chief Scientist of the USAF Air Weather Service; Eberhardt Rees, Director of NASA's Marshall Space Flight Center; and John D. Phillips, Pasadena City Manager. Notice of the death of Viking scientist Wolf D. Vishniac in Antarctica is also represented in the series.

Correspondence (Boxes 7-11, folders 176-211). This is a general correspondence series. It is split into several sub-series, including miscellaneous correspondence, autograph and biography requests, requests for articles and speeches, and miscellaneous invitations and requests.

There were many letters of unsolicited requests from people claiming to have breakthroughs in new propulsion systems or a new theory explaining the formation of the solar system or a new type of airplane. Very often the people inquired about possible job opportunities. Pickering courteously answered most of these letters, often referring them to people at NASA headquarters. Another common type of request was from people who collected autographed covers of *Time* requesting Dr. Pickering's autograph. Dr. Pickering was a popular speaker, and gave many speeches. Some of the correspondence associated with speeches and reprints of articles are also in the series.

3.4 – Awards and Commendations (Boxes 11-12; folders 212-248). The series is predominantly composed of correspondence, either notifications of honors or letters of congratulations. The series is arranged chronologically, with one folder of miscellaneous awards and commendations at the beginning for single pieces of correspondence. Also included in the series are two folders of biographies of Pickering that could be used whenever requested. Also in the series is a folder of entries of Pickering's biography from various "Who's Who" editions.

4 – JPL Activities and Correspondence (Boxes 12-16; folders 249-295). This series is predominantly composed of correspondence. Also included are pamphlets, brochures, and memoranda. The series is subdivided into various sub-series: correspondence, biographies, community relations, history, and miscellaneous. All sub-divisions are illustrative of the original order of the collection.

There are several files documenting alternate fuel issues during the early 1970s. A "clean air" car race was held in 1970, with entries from JPL, MIT, and several other colleges. Forty-eight entries participated in the race, starting at MIT and ending at Caltech. Cars were judged on emission performance and thermal efficiency, among other factors. The race team for Caltech/JPL included mainly undergraduate and graduate students, along with JPL'er Mahlon Easterling, acting as a Caltech visiting professor of applied science.

Also included in the series is a sub-series of short biographies of selected management personnel written by the Public Information Office for use in press releases. The file is organized alphabetically by last name.

The Von Kármán Seminar was held on May 12, 1965, what would have been the 83rd birthday of Theodore von Kármán, who had died in 1963. Making addresses at the seminar included Wernher von Braun, Andrew G. Haley, Congressman George P. Miller and United States Air Force General Bernard A. Schriever. Included in the file are alternate schedules, seating charts for the banquet, transcripts of Pickering's introduction of von Braun and transcripts of von Braun's and Miller's speeches.

There also is a file devoted to a biography and bibliography of Chinese rocketry pioneer and Caltech professor H. S. Tsien, as well as two other Chinese scientists with connections to Caltech, Chao Chung-yao and Chien Wei-chang, known at Caltech as Jimmy Chien. The file also includes copies of secondary sources about Tsien, including a chapter from von Kármán's autobiography *The Wind and Beyond*, and "The Bitter Tea of Dr. Tsien," by Milton Viorst, published in *Esquire* in 1967.

The sub-series identified as "JPL History" is composed primarily of historian's activities reports, filed by R. Cargill Hall during his research of the Ranger Program, ultimately published as *Lunar Impact: A History of Project Ranger* (NASA SP-4210, 1977). The monthly reports document the Ranger history, as well as the JPL history written by Clayton R. Koppes under supervision of Caltech Professor Donald J. Kevles, as well as other historical activity, and visitors. The reports are from October 1973 to February 1976.

Also included in the sub-series is a file regarding a pre-emptive name change of the Lab to the "H. Allen Smith Jet Propulsion Laboratory" in October 1972. Smith was an eight-term Congressman who was not seeking reelection. Section 11 of H.R. 16645, amending the Public Buildings Act of 1959, officially renamed JPL after Congressman Smith. Neither Caltech, JPL nor NASA were notified of the name change until a press release was issued by Smith's office. Reactions to the name change at JPL were highly negative, as most heard of it for the first time as a new sign was put into place. The situation was ultimately resolved when the Caltech Board of Trustees formally designated JPL as the "Jet Propulsion Laboratory, a division of the California Institute of Technology." Smith officially dropped his approval of the name change, the sign was taken down and the whole matter was apparently forgotten.

Also of note in the collection is correspondence from Carl Sagan to William H. Pickering, dated July 12, 1973, where Sagan suggests Professor Von R. Eshleman of Stanford University as a potential successor for Pickering as JPL Director.

There is another sub-series entitled "Miscellaneous" that includes items that did not fit easily into any other place. Included are four files dealing with the Caltech Management Club, which include photographs from a dinner banquet in honor of Caltech President Lee A. DuBridge, and an address by Air Force General Bernard A. Schriever.

Also included in the series is a file relating to research scientist Robert T. Brinkmann, who had delivered a report of his research at a foreign conference without proper clearance. The clearance was, through administrative error, neither granted nor approved. Brinkmann submitted for clearance a manuscript of his talk in preparation for publishing in a French journal. The clearance was not given, and Brinkmann, no longer an employee, wrote to NASA Administrator Thomas O. Paine about the whole matter.

Also of note is a curious file about Pickering being wooed by Yuni, a counter-culture organization who attempted to recruit ten prominent individuals to come together to solve America's most pressing problems. Among the individuals named were Walter Cronkite, Bill Cosby, Buckminster Fuller, Simon Ramo, and William H. Pickering. The organization paid for a full-page ad in the Los Angeles Times, and urged people to send postcards to the individuals named in an effort to persuade them to participate. The organization resurfaced briefly in 1972, with a similar scheme, but did not receive nearly as much publicity as their first attempt. Most of the individuals named in both groups, Pickering included, seemed to have basically ignored the group. Included in the file are newspaper clippings, press releases, correspondence, and postcards all involving the organization.

4.10 Minority/Ethnic Affairs (Boxes 16-17; folders 296-311). This sub-series primarily documents the activities of the Employee Committee, and its successors the Employee Ethnic Advisory Committee (EEAC) and the Advisory Committee on Minority Affairs (ACMA).

The Employee Ethnic Advisory Committee was reorganized from the old Employee Committee on October 29, 1969, with a revised charter. James King, Jr. was appointed Chairman. The previous Employee Committee was started in July 1968, with Walter H. Padgham as Chairman. The EEAC changed its name to the Advisory Committee on Minority Affairs (ACMA) in March 1972. James King continued as Chairman of ACMA.

Also included in the series are progress reports involving the Affirmative Action Program, and Women's Equity Action League.

4.11 Annual Reports/Five-Year Plans (Boxes 17-18; folders 312-317). This short sub-series includes JPL's contributions to the Caltech Annual Presidents Reports from 1964-1974, and two five-year plans released by JPL in 1970 and 1974.

Foreign Travel Log Sheets/Visit Reports (Box 18; folders 319-324). There were two series in the collection that were not given a numerical classification. The Foreign Travel Log Sheets/Visit Reports were one of the two.

The foreign travel log sheets were divided into programmatic and non-programmatic travel. The authorization forms documented the purpose of the trip, the destination and departure and arrival dates, along with signatures of approval. The original order of the programmatic travel forms was alphabetical, and this order has been maintained.

Two programs were singled out with their own folders, the Concorde and Helios. In 1972-73, JPL personnel conducted experiments with an interferometer to measure several stratospheric trace constituents in the atmosphere from the Concorde supersonic airplane. Seven employees traveled to Toulouse, France and Fairford, England. Additionally, in 1973 several people traveled to West Germany for support of the Helios Solar Probe Project.

Travel by employees for nonprogrammatic reasons were documented in a separate folder, organized chronologically. Nonprogrammatic travel included delivering papers at symposia held outside the United States.

Outgoing Correspondence (Boxes 18-19; folders 325-336). The Outgoing Correspondence file was another part of the collection that was not given a numerical classification as a whole yet was kept yearly as one unit. The series is composed almost entirely as copies (blue-colored) of outgoing correspondence, either from William Pickering or Vickie Melikan. The correspondence is arranged chronologically, with two exceptions.

Two events that occurred in 1968 generated enough correspondence that it was decided to give them each a file. The first event was the Tenth Anniversary of the launching of Explorer 1. A technical symposium was held at Caltech's Beckman Auditorium on February 1, 1968. People invited to participate or attend were Homer E. Newell, James A. Van Allen, General James M. Gavin, and Dwight D. Eisenhower, among others.

On October 31, 1968, there was a ceremony commemorating the GALCIT rocket motor experiments of 1936. A plaque was unveiled outside the Von Kármán Auditorium. Invited to attend were Frank J. Malina, Apollo M.O. Smith, Carlos Wood, Edward Forman, William Bollay, William C. Rockefeller, Beverley Forman, Walt Powell, Martin Summerfield, Homer J. Stewart, and Val Larsen, among others.

JPL Discreet materials

Seven folders contain documents that are stamped or marked "JPL Discreet." Whole folders that are discreet are noted in the folder list. The original positions of JPL Discreet material in the collection have been marked with separation sheets. The material has been moved to a box at the end of the collection.

Included in the Discreet information is a file pertaining to the Hibbs Ad Hoc Advisory Committee, created by Pickering on February 26, 1964. The committee was composed of Al Hibbs, Frank Colella, Barney Huber, Vicki Melikan and Richard R. Wilford. It was to look into the Laboratory's problems with NASA management and Caltech in the aftermath of several Ranger failures.

Conservation/Preservation

Standard preparations of documents for long term storage were completed.

Separation Statement

An original accession (1990-41) was split into three separate collections: the William H. Pickering Office File Collection (this collection), William H. Pickering Speech Collection (JPL 181), and the William H. Pickering Speech Reference Collection (JPL 187).

Finding Aids

No other finding aids exist for the collection.

FILE FOLDER LIST

Box 1 of 20 – 1.0 Lab Visits

- Fld. 1 Miscellaneous Visits, 1963-1966.
- Fld. 2 Miscellaneous Visits, 1967-1969, September-November 1974.
- Fld. 3 Seamans-Kelly Visit, January 28-29, 1963.
- Fld. 4 Research Directors Conference, July 11, 1963.
- Fld. 5 Arizona VIPs, Motorola Tour, April 19, 1965.
- Fld. 6 French National Institute of Aeronautics, September 21, 1965.
- Fld. 7 General James M. Gavin, October 5, 1965.
- Fld. 8 Princess Margaret, November 9, 1965.
- Fld. 9 City of Pasadena Board of Directors, November 18, 1965.
- Fld. 10 Caltech Associates, May 12, 1966.
- Fld. 11 Colonel Harold A. Gould, October 5, 1966.
- Fld. 12 Homer E. Newell, October 21-25, 1966.
- Fld. 13 Lyndon B. Johnson, November 6, 1966, visit cancelled.
- Fld. 14 William E. Zisch, April 18, 1967.
- Fld. 15 Thailand Royal Visit, King Bhumibol Adulyadej, June 16, 1967.

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- Fld. 16 Air Canada, September 28, 1967.
- Fld. 17 Lord Bessborough, October 4, 1967.
- Fld. 18 Los Angeles Consular Corps, November 16, 1967.
- Fld. 19 Air New Zealand, November 20, 1967.
- Fld. 20 Michigan State Congressmen, December 4, 1967.
- Fld. 21 Denham Healy, Australian Minister of Supply, February 8, 1968.
- Fld. 22 Starr Committee, May 1-2, 1968.
- Fld. 23 M. Granger Morgan, September 1968.
- Fld. 24 Colonel Aleio de Costa e Silva, Brazilian Consul, February 10, 1969.
- Fld. 25 Mexico-United States Commission for Space Observations, March 24, 1969.
- Fld. 26 Harold C. Holland, President, Auckland Institute and Museum, May 11, 1969.
- Fld. 27 NASA Personnel Management Review, May 15, 1969.
- Fld. 28 SAMSO Air Force Officers, May 21, 1969.
- Fld. 29 Tokyo Management Association, May 23, 1969.
- Fld. 30 Colonel Frank Borman, May 27-28, 1969.
- Fld. 31 George R. Hearst, June 10, 1969, cancelled.
- Fld. 32 Hannes Androsch, Austrian Senator, August 20, 1969.
- Fld. 33 Donn F. Eisele, September 30, 1969.
- Fld. 34 Spiro T. Agnew, October 1, 1969.
- Fld. 35 José María Castane Ortega, Managing Director, Metra International, October 8, 1969.
- Fld. 36 Japan Electronic Industry Development Association (JEIDA), Robot Engineering, October 17, 1969.
- Fld. 37 Francois-Xavier Ortoli, French Minister for Industrial Development and Scientific Research, November 17, 1969.

- Fld. 38 Potential Arthur C. Clarke visit, March 1973.
- Fld. 39 Kentaro Hayashi, President, University of Tokyo, April 8, 1974.
- Fld. 40 S. R. Valluri, May 15, 1974.
- Fld. 41 Brigadier General John E. Sterling, July 24, 1974.
- Fld. 42 Greek University Presidents, August 22, 1974.
- Fld. 43 Mrs. Donald Washburn, October 7, 1974.
- Fld. 44 General Luis Azcarraga, President, Spanish National Space Research Commission, October 29, 1974.
- Fld. 45 Mrs. Catherine Spencer, November 2, 1974.

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- Fld. 46 F. A. L. Holloway, Exxon Corp., November 6, 1974.
- Fld. 47 Pacific Telephone Executives, November 11, 1974.
- Fld. 48 Caltech Women's Club, November 14, 1974.
- Fld. 49 Wilhelm Wachtmeister, Swedish Ambassador, November 1974.
- Fld. 50 L. H. Meeker, December 2, 1974.
- Fld. 51 Sir Hugh Ennor, Head of Department of Science, Canberra, Australia, December 7, 1974, and August 13, 1975.
- Fld. 52 William Keck, Jr., Director, Standard Oil, February 3, 1975 and May 23, 1975.
- Fld. 53 Wernher von Braun, March 13, 1975.
- Fld. 54 Romanian Delegation, March 19, 1975.
- Fld. 55 Jacques-Yves Cousteau, May 22, 1975.
- Fld. 56 George Low, August 12, 1975.
- Fld. 57 Fritz Emde, NASA Code I, September 16, 1975.
- Fld. 58 Dr. Fredrich Bischoff, West Germany Federal Ministry for Research and Development, September 29, 1975.
- Fld. 59 Mrs. Harold Brown, October 15, 1975.
- Fld. 60 Dr. Bakr A. Bakr, University of Petroleum and Minerals, November 24, 1975.
- Fld. 61 Judge Shirley M. Hufstedler, December 19, 1975.

1.3 Congressional Visits

- Fld. 62 Congressman Joseph E. Karth, November 12, 1963.
- Fld. 63 Congressman Ken Hechler, December 27-28, 1963.
- Fld. 64 Congressional Visitors to Cape Kennedy for 'Ranger B' Launch, c. 1963-1964. [file is "JPL Discreet"]
- Fld. 65 Senate Space Committee Staff Visit, January 21, 1964, cancelled.
- Fld. 66 Congressman Emilio Q. Daddario, January 15, 1965.
- Fld. 67 Senator Clinton P. Anderson, April 1, 1965.
- Fld. 68 Congressman George E. Brown, Jr., April 16, 1965.
- Fld. 69 Dr. Glen P. Wilson, Professional Staff Member, Senate Committee on Aeronautical and Space Sciences, August 3, 1965.
- Fld. 70 U.S. House Science and Astronautics Committee members, September 1-3, 1965.
- Fld. 71 Philip P. Dickinson, Technical Consultant, House Committee on Science and Astronautics, October 1965.
- Fld. 72 Congressmen Karth, Mosher visit, December 2, 1965.
- Fld. 73 Congressman Daddario, January 15, 1966.
- Fld. 74 U.S. House Manned Space Flight Subcommittee, February 12, 1966.
- Fld. 75 U.S. Senate Staff Visit, October 1966.

Fld. 76 Congressmen Shipley, Giaimo visit, December 6, 1966.
 Fld. 77 Congressman Ken Hechler, January 30, 1967, cancelled.
 Fld. 78 Congressman Olin Teague, February 17, 1967.
 Fld. 79 U.S. House Subcommittee on Space Sciences and Applications, March 23-24, 1967.
 Fld. 80 Congressman Donald E. Lukens, August 18, 1967.
 Fld. 81 Philip P. Dickinson, October 17, 1967.
 Fld. 82 Dr. Glen P. Wilson, October 19, 1967.
 Fld. 83 Congressmen George E. Brown, J. Edward Roush, February 14, 1968.
 Fld. 84 U.S. House Committee on Science and Astronautics visit to DSN, Madrid, Spain, August 1968.
 Fld. 85 Congressman H. Allen Smith, October 24, 1968.
 Fld. 86 Congressman Charles A. Mosher, November 21, 1968.
 Fld. 87 U.S. House Subcommittee on Advanced Research and Technology, Staff Members, February 12, 1969.
 Fld. 88 Herbert Roback, Assistant to Congressman Chet Holifield, February 13, 1969.
 Fld. 89 Congressman Karth visit, February 14, 1969.
 Fld. 90 James J. Gehrig, Staff Director, Senate Committee on Aeronautical and Space Sciences, July 1969.
 Fld. 91 Congressman Carlos J. Moorhead, September 6, 1974.

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Fld. 92 U.S. House Subcommittee on Space Science and Applications visit, February 10, 1975.
 Fld. 93 U.S. Senate Space Committee Staff Members visit, August 13, 1975.
 Fld. 94 U.S. House Subcommittee on Space Science and Applications visit, October 14, 1975.
 Fld. 95 Amy Bondurant, Staff Member on Ad Hoc Committee on Aerospace Technology Applied to National Needs, March 16, 1976.

2.1 Special Events

Fld. 96 Science and Technology Advisory Committee (STAC) Meeting, JPL, December 8-9, 1964.
 Fld. 97 Caltech Industrial Associates Meeting, JPL, December 1964.
 Fld. 98 Lyndon B. Johnson Presidential Inauguration, January 20, 1965.
 Fld. 99 Johnson Inaugural Committee Badge and Ribbon, January 20, 1965.
 Fld. 100 Goddard Memorial Award Dinner, March 19, 1965.
 Fld. 101 American Institute of Aeronautics and Astronautics Meeting, San Francisco, July 1965.
 Fld. 102 JPL Open House, October 1965.
 Fld. 103 NASA-Western University Conference, JPL, November 8-9, 1965.
 Fld. 104 Goddard Memorial Award Dinner, March 16, 1966.
 Fld. 105 Goldstone 210' Antenna Dedication, April 29, 1966 (September 1965-May 1966) [folder 1 of 2]
 Fld. 106 [folder 2 of 2]
 Fld. 107 Goldstone 210' Antenna Dedication, Speeches by Pickering, Congressman Miller, April 29, 1966.
 Fld. 108 Surveyor 1 Touchdown, June 2, 1966.
 Fld. 109 Caltech Convocation, October 24, 1966.
 Fld. 110 Von Kármán Lecture Series, February-April 1967.

Fld. 111 Surveyor 5 Touchdown, September 11, 1967.
 Fld. 112 Small Business Administration Conference, October 12, 1967.
 Fld. 113 Mariner 5 Venus Encounter, October 19, 1967.

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Fld. 114 Conference on Scientific Progress and Human Values, October 24-27, 1967.
 Fld. 115 Surveyor 6 Touchdown, November 10, 1967.
 Fld. 116 Surveyor 7 Touchdown, January 7, 1968.
 Fld. 117 Global Strategy Discussions, Naval War College, June 1968.
 Fld. 118 AAS Symposium, Denver, July 15-16, 1968.
 Fld. 118A JPL Open House, May 1970.
 Fld. 119 Advisory Group for Aerospace Research and Development (AGARD), July 1971-August 1973.
 Fld. 120 Antarctic Museum Centre, January-June 1972.
 Fld. 121 Robert D. Fletcher Retirement, June 1972.
 Fld. 122 Ansel Adams Gift, August-September 1972.
 Fld. 123 Girard Bank of Philadelphia, possible essay contest on Mariner 9, September-October 1972.
 Fld. 124 COSPAR, Konstanz, West Germany, November 1972-July 1973.
 Fld. 125 Mars Globe "Thank You" letters, 1973-1975.
 Fld. 126 Mars Nomenclature Group, January 9, 1973.
 Fld. 127 Eberhardt Rees Retirement Dinner, January 13, 1973.
 Fld. 128 International Astronomical Union, February-May 1973.
 Fld. 129 John D. Phillips Retirement Dinner, March 2, 1973.
 Fld. 130 Four Cities Program, March 15-16, 1973.
 Fld. 131 Mariner 9 Commendation, April 1973.
 Fld. 132 Apollo Awards Ceremony, Washington, D.C., April 4, 1973.
 Fld. 133 Univac Scientific Exchange Chapter, June 8, 1973.
 Fld. 134 Research and Technology Advisory Council, Meeting Minutes, August 16-17, 1973.
 Fld. 135 Statement from the Continuing Committee, 23rd Pugwash Conference, Aulanko, Finland, August 30-September 4, 1973.
 Fld. 136 Metric Conference, UCLA, September 7-8, 1973.
 Fld. 137 International Astronomical Federation, Baku, Azerbaijan, USSR, October 8-15, 1973.
 Fld. 138 Mariner Venus/Mercury (Mariner 10) Launch Activities, November 3, 1973.

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Fld. 139 Los Angeles County Watershed Council, November 16, 1973.
 Fld. 140 International Colloquium on Mars, November 28-December 1, 1973.
 Fld. 141 Wolf Vishniac Death, December 10, 1973.
 Fld. 142 Pasadena Centennial, January 26, 1974.
 Fld. 143 Mariner 10 Venus Encounter, February 5, 1974.
 Fld. 144 Solar Cooling Workshop, February 6-8, 1974.
 Fld. 145 Presentation to U.S. Attorney General William Saxbe, February 15, 1974.
 Fld. 146 Mariner 10 Encounter Replies, March-August 1974.
 Fld. 147 Mariner 10 Mercury Encounter, March 29, 1974. [folder 1 of 2]
 Fld. 148 [folder 2 of 2]
 Fld. 149 Mariner 10 Mercury Encounter, Mercury Encounter Imaging Mosaics, March 29, 1974.

- Fld. 150 Science Fiction Writers of America Writers' Conference, April 24-27, 1974.
- Fld. 151 Remote Sensing Symposium, April 26, 1974.
- Fld. 152 JPL Open House, May 17-19, 1974.
- Fld. 153 VIP Open House Night, May 17, 1974.
- Fld. 154 Mariner Venus/Mercury 1973 NASA Awards Ceremony, August 16, 1974.
- Fld. 155 Fifteenth International Symposium on Combustion, August 25-31, 1974.

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- Fld. 156 International Colloquium on Drops and Bubbles, August 28-30, 1974.
- Fld. 157 Mariner 10 Second Mercury Encounter, September 21, 1974.
- Fld. 158 JPL Open House, October 5-6, 1974.
- Fld. 159 NASA Awards Ceremony, October 29, 1974.
- Fld. 160 Mariner 10 Stamp Celebration, April 4, 1975.
- Fld. 161 International Aerospace Hall of Fame, May-July 1975.
- Fld. 162 Hydrogen Energy Systems Technology, Final Review, May 21-22, 1975.
- Fld. 163 JPL Mercury Colloquium, June 25-27, 1975.
- Fld. 164 Viking Launch "A," [Viking 1], August 20, 1975.
- Fld. 165 Briefing Session 1 for Dr. Bruce Murray, August 26, 1975.
- Fld. 166 Viking Launch "B," [Viking 2], September 9, 1975.
- Fld. 167 Verdugo Hospital Benefit, September 27, 1975.
- Fld. 168 250th Anniversary of the Academy of Sciences, USSR, October 7, 1975.
- Fld. 169 Electrical Engineering Seminar, Caltech, November 4, 1975.
- Fld. 170 NASA Annual Awards Ceremony, November 11, 1975; December 17, 1975.
- Fld. 171 Proposed COSPAR Meeting in Pasadena, 1976.
- Fld. 172 Building 264 Dedication, January 29, 1976.
- Fld. 173 NASA Award Ceremony, March 22, 1976.
- Fld. 174 Advisory Committee on Minority Affairs, March 23, 1976.
- Fld. 175 Change of Directorship Ceremony, March 31, 1976.

3 William H. Pickering Correspondence

3.1 Pickering - General

- Fld. 176 General Correspondence, 1974-1975.
- Fld. 177 Committee for Superintendent-President Selection, Pasadena City College, October-December 1975.

3.2 Pickering – Miscellaneous Correspondence

- Fld. 178 Miscellaneous Correspondence, 1972-1975.

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- Fld. 179 University of Washington College of Engineering, 1972-1975.
- Fld. 180 Miscellaneous Arthur C. Clarke correspondence, 1973-1974.
- Fld. 181 Sir Bernard Lovell, September-December 1974.
- Fld. 182 Frank J. Malina, 1975.

3.3 Miscellaneous Correspondence

- Fld. 183 Miscellaneous Correspondence, 1965-1968.
- Fld. 184 Letters of Bereavement, 1965-1967.
- Fld. 185 Bryan G. Wallace correspondence, 1966-1967.

Fld. 186 Centro Observadores del Espacio (CODE), Santa Fe, Argentina, 1969.
 Fld. 187 Howard Sharpe correspondence, 1969-1970.
 Fld. 188 General Correspondence involving Caltech, 1965-1968.
 Fld. 189 General Correspondence involving JPL, 1965-1968.
 Fld. 190 JPL, Public Information Office, 1962-1968.
 Fld. 191 Hibbs Ad Hoc Advisory Group, 1964. [whole file is "JPL Discreet"]
 Fld. 192 Scientific Research and Development Organization Study, c. 1964.

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Fld. 193 JPL Miscellaneous, 1966-1968.
 Fld. 194 Staff Study "Size Up" Abridged Report, February 27, 1968. [whole file is "JPL Discreet"]

3.3.1 Requests – Autographs and Biography

Fld. 195 Requests- Autographs and Biography, 1965-1975.

3.3.2 Requests to Speak, Articles

Fld. 196 Requests to Speak, Articles, Yes, 1965.
 Fld. 197 Requests to Speak, Articles, Yes, 1966-1967.
 Fld. 198 Requests to Speak, Articles, No, 1965-1968.
 Fld. 199 Requests, Articles and Speeches, 1971-1974.

3.3.3 Miscellaneous Invitations and Requests

Fld. 200 Miscellaneous Requests and Invitations, 1965-1966.
 Fld. 201 Requests for Photo, Biography and/or Autograph, 1965-1966.
 Fld. 202 Miscellaneous Requests and/or Autographs, 1966-1967.

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Fld. 203 Miscellaneous Requests, 1968. [folder 1 of 2]
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 Fld. 205 Miscellaneous Invitations and Requests, 1971-1976. [folder 1 of 5]
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Fld. 209 [folder 5 of 5]
 Fld. 210 G. N. Ketterfield, Leningrad State University, 1974.
 Fld. 211 3.3.4 – Referred to PIO and Others for Answers, 1972-1975.

3.4 Awards and Commendations

Fld. 212 Miscellaneous Commendations, 1957-1976.
 Fld. 213 Scientist of the Year Award, California Museum of Science and Industry, 1959-1966.
 Fld. 214 Collier Trophy Nomination, 1964.
 Fld. 215 Columbus Gold Medal, 1964.
 Fld. 216 Galabert International Astronautics Award, 1964-1965.
 Fld. 217 Crozier Gold Medal, July 14, 1965.
 Fld. 218 NASA Distinguished Service Medal, July 27, 1965.
 Fld. 219 Robert H. Goddard Memorial Trophy, National Space Club, 1965.
 Fld. 220 Distinguished Citizen of the Year Award, Association of the U.S. Army,

- 1965.
- Fld. 221 Universal Order of Antares, 1965.
 - Fld. 222 Procter Award, Scientific Research Society of America (RESA), 1965.
 - Fld. 223 National Honor Award, American Society of Tool and Manufacturing Engineers, 1965.
 - Fld. 224 Spirit of St. Louis Medal, 1965.
 - Fld. 225 Thomas D. White National Defense Award, 1966.
 - Fld. 226 Knight of the Order of Merit of the Republic of Italy, 1965-1966.
 - Fld. 227 Honorary Degree, Clark College, Worcester, MA, 1966.
 - Fld. 228 La Canadian of the Year, 1968.
 - Fld. 229 American Astronomical Society, Space Flight Award, 1968.
 - Fld. 230 ARCS Gold Cup Ball, July 10, 1969.
 - Fld. 231 Louis B. Hill Award, American Institute of Aeronautics and Astronautics, 1969.
 - Fld. 232 National Space Hall of Fame, 1969.
 - Fld. 233 Interprofessional Cooperation Award, Society of Manufacturing Engineers, 1969-1970.

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- Fld. 234 The Blue Book, St. James Press, 1971-1976.
- Fld. 235 George C. Marshall Medal, Association of the United States Army, 1972.
- Fld. 236 Edison Medal, 1972.
- Fld. 237 Crown City Award, Pasadena Chamber of Commerce, May 23, 1972.
- Fld. 238 California Legislature Commendations, 1972.
- Fld. 239 Salvation Army Community Service Award, 1972-1973.
- Fld. 240 Marconi Award, October 14, 1974.
- Fld. 241 Presidential Management Improvement Award, 1974.
- Fld. 242 Cristoforo Colombo Award Nomination, 1974.
- Fld. 243 WEMA Medal of Achievement, 1975.
- Fld. 244 Honourary Knight Commander of the Civil Division of Most Excellent Order of the British Empire, November 1975.
- Fld. 245 Robert J. Collier Trophy Nomination, 1975-1976.
- Fld. 246 Distinguished Leadership Award, Verdugo Hills Hospital, February 27, 1976.
- Fld. 247 Society of Research Administrators Award Nomination, 1976.

3.5 Pickering Biographies

- Fld. 248 Pickering Biographies, 1965-1975.
- Fld. 249 "Who's Who" Entries, 1958-1975.
- Fld. 250 Pickering Biographical, "JPL News Clips" articles, 1965-1968.
- Fld. 251 Lab-Oratory, "The Pickering Years," 1975.
- Fld. 252 National Medal of Science Nominations, 1966-1975.

4.1 Jet Propulsion Laboratory – Correspondence

- Fld. 253 Correspondence, Miscellaneous, 1970-1974.
- Fld. 254 JPL Exhibit Center, Prepared by Herb Rosenthal and Associates, c. 1970.
- Fld. 255 Clean Air Car Race, 1970.

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- Fld. 256 Clean Car Engine, 1973-1976. [folder 1 of 3]
- Fld. 257 [folder 2 of 3]

Fld. 258 [folder 3 of 3]
 Fld. 259 Clean Car – General Motors Statement to Subcommittee on Air and Water Pollution of Senate Committee on Public Works, May 30, 1973.
 Fld. 260 Four Cities Program, 1973-1974.
 Fld. 261 Wastewater Treatment, 1974.
 Fld. 262 Automobile Power Systems Evaluation Study (APSES), 1975-1976.
 Fld. 263 Advanced Transportation Technology Impact Studies (ATTIS), 1975.
 Fld. 264 ERDA Congressional File, 1976.

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4.2 JPL Biographies

Fld. 265 JPL Biographies, c. 1965-c. 1971.
 Fld. 266 Theodore von Kármán Memorial Seminar, May 12, 1965. [folder 1 of 2]
 Fld. 267 [folder 2 of 2]
 Fld. 268 Tsien Hsue-Shen, 1969-1970.
 Fld. 269 4.3 JPL Congressional Affairs, 1969-1973.
 Fld. 270 4.5 Public Information Office, 1969-1975.

4.7 JPL Community Relations

Fld. 271 Miscellaneous Community Relations, 1965-1975.
 Fld. 272 Metropolitan Water District, 1964.
 Fld. 273 JPL Community Relations Committee, 1965.

4.8 JPL History

Fld. 274 "Jet Propulsion Laboratory- Its Objectives, Organization and Programs," May 6, 1960.
 Fld. 275 JPL name change to "H. Allen Smith Jet Propulsion Laboratory," 1972.

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Fld. 276 Historian's Activity Reports, October 1973-February 1976.
 Fld. 277 Carl Sagan letter regarding Pickering succession, July 12, 1973.
 Fld. 278 Gerard P. Kuiper, "The Apollo Program and Lunar Science," with comment from R. Cargill Hall, 1973.

4.9 Miscellaneous

Fld. 279 Miscellaneous, 1968-1974.
 Fld. 280 Personnel, 1968-1975.
 Fld. 281 Caltech Management Club Program Committee, 1968-1974.
 Fld. 282 Caltech Management Club Newsletter, October 1968-July 1975.
 Fld. 283 Caltech Management Club, Lee DuBridge Dinner Banquet, photographs, October 23, 1968.
 Fld. 284 Caltech Management Club, General Bernard A. Schriever Address, December 3, 1968.
 Fld. 285 Robert T. Brinkmann, 1969-1970.
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 Fld. 288 "Participation in Activities Outside Jet Propulsion Laboratory," February 18, 1970.
 Fld. 289 FY 71 Burden Planning Guidelines, March 31, 1970.

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- Fld. 290 Hosea M. Alexander, Sr., Frank F. Baran, Jr., Louis W. Miller, "A Service Distribution Model for a Hospital Admitting System," West Coast University Masters Thesis, June 1971.
- Fld. 291 Living and Growing with Change Seminar, Caltech, September 25, 1971.
- Fld. 292 Sam Boyer, "Vital Records Master List for the Jet Propulsion Laboratory," June 30, 1972.
- Fld. 293 R. Diehl, "Transfer of New Knowledge from Space Technology to Facilities of Engineering," July 17, 1972.
- Fld. 294 Projects Engineering Building, September 1972.
- Fld. 295 Common Cause, Report from Washington newsletters, December 1970-February 1972.

4.10 Minority/Ethnic Affairs

- Fld. 296 Minority/Ethnic Affairs, 1966-1975. [folder 1 of 3]
- Fld. 297 [folder 2 of 3]
- Fld. 298 [folder 3 of 3]
- Fld. 299 Employee Committee Meeting Minutes, July 1968-July 1969.

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- Fld. 300 Employee Ethnic Advisory Committee Meeting Minutes, November 1969-March 1972.
- Fld. 301 EEAC/ACMA Miscellaneous Correspondence, 1968-1974.
- Fld. 302 EEAC Annual Reports, 1970-1971.
- Fld. 303 Advisory Committee on Minority Affairs, Meeting Minutes, April 1972-October 1974.
- Fld. 304 Affirmative Action Program, 1970-1971.
- Fld. 305 Jack N. James, "Affirmative Action Program, Calendar Year 1971," Issue 3, 500-44, September 15, 1971.
- Fld. 306 Ethnic Committee, Fifth Annual Conference, Living and Growing with Change, September 25, 1971.
- Fld. 307 "NASA: Caught Between Congress and Apartheid," *Science*, March 24, 1972. (article about South Africa DSN station)
- Fld. 308 Affirmative Action Program, Significant Event Reports, April 30, 1972.
- Fld. 309 Affirmative Action Program, Progress Report, Third Quarter 1972, December 13, 1972.
- Fld. 310 Civil Rights, Women, 1971-1972.
- Fld. 311 Civil Rights, Women, Women's Equity Action League, 1971-1972.

4.11 Annual Reports/Five-Year Plans

- Fld. 312 Annual Reports, 1964-1970.
- Fld. 313 JPL Five-Year Plan, 500-21, Issue 2, August 1, 1970.
- Fld. 314 JPL Annual Report, 1971.
- Fld. 315 JPL Portion of Caltech President's Report for 1972-1973.
- Fld. 316 JPL Five-Year Plan, 500-21, Issue 5, August 5, 1974.

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- Fld. 317 JPL Annual Report and Caltech President's Report, 1974.

Visit Requests/Foreign Travel Logs

- Fld. 318 Visit Requests, Foreign Nationals, January-April 1976.

Fld. 319 Foreign Travel Requests, Programmatic, 1973.
 Fld. 320 Foreign Travel, Concorde, 1972-1973.
 Fld. 321 Foreign Travel, Helios, 1973.
 Fld. 322 Foreign Travel Log Sheets, Nonprogrammatic, October 1972-February 1974. [folder 1 of 3]
 Fld. 323 [folder 2 of 3]
 Fld. 324 [folder 3 of 3]

Chronological Outgoing Correspondence File

Fld. 325 Explorer 1 Tenth Anniversary, February 1, 1968.
 Fld. 326 GALCIT Rocket Test Commemoration, October 31, 1968.

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Fld. 327 Outgoing mail copies, chronological file, June-December 1967.
 Fld. 328 Chronological file, January-December 1968.
 Fld. 329 Chronological file, January-June 1969.
 Fld. 330 July-December 1969.
 Fld. 331 January-December 1970.
 Fld. 332 January-December 1971.
 Fld. 333 January-December 1972.
 Fld. 334 January-December 1973.
 Fld. 335 January-December 1974.
 Fld. 336 January-December 1975.

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JPL Discreet material; 7 folders.

CATALOG DESCRIPTION

William H. Pickering Office File Collection, 1955-1976

5.85 cubic ft. (344 folders)

The collection was compiled and collected by William H. Pickering, JPL Director, 1954-1976, and Victoria L. Melikan, Special Assistant to the Director. The collection consists primarily of correspondence, although memoranda, notes, pamphlets, copies of newspaper, magazine and journal articles, transcripts of speeches, press releases and photographs are also present. The collection is arranged in its original order, organized by numerical filing number. Each category can be considered a series or sub-series. These are: Lab Visits, including Congressional visits; Special Events; General Correspondence, including invitations and requests; Awards and Commendations; JPL Correspondence, including biographies, history, minority affairs and annual reports; Foreign Travel Logs; and Outgoing Correspondence Files. Each series or sub-series has been arranged in chronological order unless otherwise noted. The date span of the collection is 1959 to 1976, with bulk dates of 1964 to 1975.

The collection contains JPL Discreet materials.

Finding aid available in the repository.

Tracings

Jet Propulsion Laboratory – History.

Jet Propulsion Laboratory – Office of the Director

Jet Propulsion Laboratory – Advisory Committee on Minority Affairs

Jet Propulsion Laboratory – Employee Ethnic Advisory Committee

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Urey, Harold C., 1893-1981.
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Mars
Moon
Project Viking
Helios
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Part of Accession 1990-41.